

BVH 34290

NEW TAXA OF SOUTH AMERICAN COMPOSITAE

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Bidens triplinervis H.B.K. var. macrantha (Wedd.) Sherff
form. exaristata Chung, form. nov.

Achaenia exaristata.

Ecuador: Prov. Pichincha, El Pisque, cerca de Guayllabama,
1800 m. Acosta S. 16278 (typus F).

Chrysanthellum weberbaueri Chung, sp. nov.

This resembles C. mexicanum Greenm. in habit and in the
foliage but differs from it and from C. americanum (L.) Vatke
in broadly cartilaginous-margined disk achenes and in the
subcompressed more or less tuberculate ray achenes.

Herba annua glabra, caule gracili recto ramoso striato 15-20
cm. alto. Folia alterna petiolata tripinnatisecta, laciniis
linearibus acutis. Inflorescentia corymbosa. Capitula peduncu-
lata turbinata anthesi 5 mm. lata 3.5 mm. alta; squamae
involucris extimae 2 lineari-lanceolatae uninerviae, interiores
ca. 8 membranaceae multinerviae margine scariosae ovatae
obtusaeque ca. 3 mm. longae 1-1.5 mm. latae; paleae receptaculi
lineari-lanceolatae acutiusculae ca. 2 mm. longae membranaceae
3-nerviae margine scariosae. Flosculi radiales feminei ca. 13,
corolla 1.5 mm. longa, tubo 0.5 mm. longo glanduloso, ligula
ovata 1 mm. longa 2-nervia integerrima vel retusa; flosculi
discales hermaphroditi ca. 23, corolla tubuliformi ca. 1.5 mm.
longa 4(5)-loba; staminibus 4(5) inclusis, antheris ca. 0.5
mm. longis vix sagittatis; rami stylorum lineares ca. 0.8 mm.
longi basi glaber exceptus dense pubescentes. Achaenia
radiales subcompressa 3-3.5 mm. longa apice ca. 2 mm. lata
basi 1-1.5 mm. lata margine cartilaginea tuberculataque;
achaenia discales plana cuneato-obovata ca. 3.5 mm. longa 2-2.5
mm. lata alis inclusis, ala cartilaginea 0.7-0.9 mm. lata
margine integerrima ciliataque apice brevissime protrusa.

Peru, Weberbauer 6465 (typus F 629085).

Dasyphyllum barbatum Chung, sp. nov.

This may be easily distinguished from all other species of
Dasyphyllum by its villous filaments inserted at the apex of
the corolla tube and by the glabrous inner surface of the corolla.

Frutex 1.5-2 m. altus, ramulis fuscis striatis dense pubes-
centibus, foliis solitariis vel fasciculatis obovatis vel ellip-
ticis vel rotundis 2.5-5 cm. longis 1.5-2.5 cm. latis apice
mucronatis basi attenuatis vel rotundatis brevipetiolatis
integerrimis penninerviis subtus inter nervos laterales

reticulato-venosis utrinque pubescentibus, aculeis axillaribus geminis rectis 1-2.5 cm. longis basi ca. 1 mm. crassis pubescentibus. Capitula sessilia plerumque solitaria. Involucra turbinata 2.7-3.2 cm. longa, squamis 7-11-seriatis, exterioribus coriaceis ovatis vel ovato-lanceolatis mucronatis dense ciliatis utrinque cinereo-tomentosis, interioribus chartaceis rectis lineari-lanceolatis utrinque cinereo-tomentosis; receptaculo plano ca. 7 mm. diam. dense villosa; axis solidus. Flosculi 28-45 hermaphroditi, corolla atropurpurea 17-23 mm. longa bilabiata intus glabra, tubo 5-7 mm. longo glabro, ligula exteriori apice 4-loba, lobis 2-3 mm. longis extus dense villosis, ligula interiori 10-16 mm. longa basi ca. 0.7 mm. lata apice extus dense villosa; stamina 5, filamentis liberis ca. 5 cm. longis densissime villosis summo tubo insertis; antheris ca. 5 mm. longis, caude 1 mm. longa, appendice 1.5-2 mm. longa emarginata vel integerrima; pappi setis 23-26 uniserialis plumosis 15-17 mm. longis basi connatis; achaeniis 6-8 mm. longis dense cinereo-villosis cylindratis.

Peru: Lima, cultivated at the Botanical Garden, Seibert 2096 (typus US 1901491), Martinet s.n. (P); Prov. Lambayeque: west side Abra Porculla Pass km. 35 east of Olmos, Mesones-Muro Highway between Olmos and Rio Maranon, alt. 1650 m., Hutchison 1379 (F); inter Bagua et Olmos, Maekawa 602307 (F, TH).

The pollen grains are, unlike the typical form of Dasyphyllum, ellipsoidal and of the Mutisia type.

Ericentrodea corazonensis (Hieron.) Blake & Sherff var. cuatrecasasii (Sherff) Chung, comb. nov.

Bidens rubifolia H.B.K. var. Cuatrecasasii Sherff, Botanical Leaflets no. 3: 8. 1951.

This differs from E. corazonensis (Hieron). Blake & Sherff in the longer internodes, longer petioles, 5-12-serrate leaf margins, and longer limbs of the disk corollas.

Herba perennis vel suffrutex scandens, caule et ramis oppositis tetragonis vel subteretibus striatis glabris, internodiis 6-15 cm. longis, foliis oppositis, petiolatis 2-5.5 cm. longis, foliolis utrinque 5-12 serratis subcoriaceis penninerviis inter nervos laterales reticulato-venosis. Inflorescentia apice ramorum cymoso-paniculata 8-12 capitulis, pedunculis usque ad 9 cm. longis puberulis bracteis involucri squamis exterioribus similibus praeditis; involucri campanulati, squamis biseriatis, exterioribus 5 oblongo-lanceolatis acutis 4-5 mm. longis 1.2-2 mm. latis herbaceis 3-nerviis margine diaphanis glandulose-denticulatisque dorso puberulis demum subcoriaceis, interioribus ovato-lanceolatis obtusis 7-8 mm. longis ca. 3 mm. latis scariosis multi-nerviis; paleae receptaculi convexi oblongo-lanceolatae acutae ca. 8 mm. longae 1.5-2 mm. latae scariosae.

Flosculi radiales feminei 6-7 fertiles, ligula oblonga-ovata 17-19 mm. longa 4-5 mm. lata apice 2(-3)-denticulata, tubo ca. 1.5 mm. longo; flosculi disciales ca. 33 hermaphroditi, corolla tubulosa glabra 6-7 mm. longa, tubo 1.5-2 mm. longo, limbo 4.5-5 mm. longo laciniis triangularis 0.5-1 mm. longis; antheris exsertis ca. 3 mm. longis appendiculis inclusis; achaenia plana cuneato-obovata ca. 5 mm. longa 2.5-3 mm. lata alis inclusis margine ciliate apice consticta, aristis basi crassis glabrisque ex annulo coronuliformi nascentibus 2-4-fidis, ramis ca. 2 mm. longis retrorsum barbellatis pratensis facile deciduis.

Columbia: Dept. Valle: Hoya del rio Bugalagrande: Barragan, Quebrada de la Chorrera, 3000-3080 m., J. Cuatrecasas 20982 (typus F); Dept. Cauca: entre Purace y el volcan, matorrales en Chiquin, 3100-2700 m., J. Cuatrecasas et E.P.A. 5944 (F).

Ecuador: Prov. Bolivar: Simiatug, Hacienda Talahua, 3200 m., C. W. Penland et R. H. Summers 555(F).

Liabum acostae Chung, sp. nov.

Herba annua (?); caule gracili, atropurpureo, striato, pilis fuscis articulatis dense obsitis; foliis oppositis, laminis membranaceis, hastato-triangularibus, acuminatis grosse dentatis, 2-3.5 cm. longis, basi 1-3 cm. latis, in petiolum alatum usque ad 1.5 cm. longum, basi auriculatum angustatis, utrinque pilis fuscis articulatis dense obsitis; inflorescentiis corymbosis, oligocephalis, longe pedunculatis, pedunculis usque 9 cm. longis dense pilosis; involucri hemispherici 6 mm. altis, squamis ca. 22, triseriatis, subequilongis, exterioribus ovato-lanceolatis, acuminatis, 5-nerviis, dense pilosis; interioribus angustioribus oblongo-lanceolatis, acuminatis, 3-nerviis, prope apicem pilosis; floribus radii femineis ca. 20, corollis ca. 17 mm. longis luteis, ligula 15.5 mm. longa, 2 mm. lata, elongato-oblonga apice subintegra, tubo 1.5 mm. longo, sparce piloso; floribus hermaphroditis disci ca. 25, corollis ca. 6 mm. longis, tubo 2.5 mm. longo, dense piloso, limbo cylindrico, apice profunde quinquefido, laciniis 2 mm. longis, prope apicem sparse piloso; antheris atropurpureis, ca. 2 mm. longis; achaeniis subturbinatis, 10-striato-angulatis, angulis parce hirtis, 2 mm. longis, fuscis; pappo lutescente, e squamulis 6 ca. 0.7 mm. longis ellipticis apice lacerato-denticulatis et setis todidem 3-3.5 mm. longis scabridiusculis omnibus basi connatis formato; receptaculo plano, ca. 2 mm. diam. favoso-squamuloso.

Ecuador: Entre Oya Cachi y Comenia, Cord. Oriental, Prov. Pichincha, M. Acosta Solis 11175 (F. typus).

Monactis penlandii Chung, sp. nov.

Frutex; ramis atropurpureis subangulato-sulcatis, pubescentibus; foliis alternis, petiolatis; petiolis 1-2 cm. longis, dense pubescentibus; laminis 5-15 cm. longis 2.5-7 cm. latis, e basi cuneatis subrhombico-ovatis, acuminatis, margine remote glanduloso-denticulatis, coriaceis, triplinerviis, supra viridibus hirto-scabridis rugosis, subtus subcano-viridibus dense pubescentibus et cum glandulis resinosis sessilibus ornatis; foliis inflorescentiis proximis decrescentibus, bracteiformibus, subsessilibus, ovato-lanceolatis vel lanceolatis; inflorescentiis apice ramulorum dense corymbosis; capitulis numerosis, saepe pluribus dense congregatis, subsessilibus; involucri subcylindranei ca. 6 mm. alti; phyllariis 8-9, biseriatis, herbaceis, 3-5 nerviis, exterioribus minoribus lanceolatis, interioribus oblongis, obtusis, dorso glabris vel pubescentibus, margine ciliatis; receptaculo plani, parvi; paleis paucis, oblongis, 7-8 mm. longis obtusis, dorso glandulopubescentibus, flores involventibus, 5-7 nerviis; floribus omnibus hermaphroditis tubulosis 7-8; corollis luteis, ca. 4 mm. longis, tubo limbum aequante, glandulopubescentibus vel glabris; limbo campanulato, profunde usque ad medium quinquefido, cum glandulis resinosis sessilibus ornatis; laciniis lanceolatis, acutis, revolutis; achaeniis atropurpureis, ca. 5 mm. longis, subfusiformibus, breviter rostratis et stipitatis, 3-4-angulatis, glabris; pappi squama 1, membranacea, atropurpurea, lanceolata, acuminata, corollae, tubum aequante.

Ecuador: Prov. Azuay: Banos near Cuenca, 2600 m., C. W. Penland 1068 (typus F); Prov. Canar: near Ruins of Ingapirca, 3100 m., C. W. Penland 1030 (F).

Piqueria (Phalacraea) setifera Chung, sp. nov.

Herbacea annua pilosa erecta 9-19 cm. alta; caule gracili simplici atropurpureo striato, internodiis 3-4 cm. longis; foliis oppositis graciliter petiolatis, petiolis 1-3 mm. longis, laminis ca. 10 mm. longis 7 mm. latis, ovato-lanceolatis apice obtusis basi cuneatis margine undulatis; capitulis laxo corymboso-paniculatis, graciliter pedicellatis, 10-12-floris; phyllariis biseriatis ca. 8 spatulatis vel obovato-oblongis vel obovato-lanceolatis 2.5-2.8 mm. longis margine ciliatis; corollis albis 1.5-1.7 mm. longis sparse glandulosis, tubo proprio ca. 0.5 mm. longo, faucibus campanulatis; achaeniis 5-angulatis ca. 1.2 mm. longis glabris basi subrectis, setis brevibus coronatis; setis 15-18, ca. 0.5 mm. longis, basi connatis, barbellatis; receptaculi plani.

Peru: Dept. Cuzco: Prov. Urubamba: Machupicchu, 2040 m., C. Vargas C. 3369 (typus F)

Piqueria (*Phalacraea*) *vargasii* Chung, sp. nov.

Herba decumbens ramosa, caule et ramis teretibus viridis puberulo-glandulosis, foliis alternis petiolatis, laminis ovatis basi cuneatis remote serrato-dentatis puberulo-glandulosis. Inflorescentia paniculata, pedicelis gracilis piloso-glandulosis 7-20 mm. longis, capitulis (12-) 15 (-16)-floris, involucri squamis 5-8 subuniseriatis membranaceis ca. 3 mm. longis reticulato-nervosis apice obtusis vel erosis, exterioribus ca. 5 late ovatis virellis subcarinatis dorso margineque puberulo-glandulosis, interioribus 0-3 obovato-cuneatis planis subhyalinis dorso glabris, achaeniis glabris quinquecostatis disco annulari coronatis basi obliquis.

Peru: Dept. Apurimac, Prov. Grau, C. Vargas 6018 (typus F).

NOTES ON NEW AND NOTEWORTHY PLANTS. XLVI

Harold N. Moldenke

LANTANA INVOLUCRATA f. *RUBELLA* Moldenke, f. nov.

Haec forma a forma typica speciei corollis rubellis recedit.

This form differs from the typical form of the species in having its corollas uniformly pink throughout the period of anthesis.

The type of the form was collected by Grady Linder Webster & K. I. Miller (no. 9834) in shrubby woods behind the beach at Buccoo Bay, on Tobago Island, August 22, 1959, and is deposited in the herbarium of the Naturhistoriska Riksmuseum at Stockholm.

LANTANA PEDUNCULARIS var. *MACROPHYLLA* Moldenke, var. nov.

Haec varietas a forma typica speciei laminis foliorum usque ad 7 cm. longis 4 cm. latis densissime ubique velutinis recedit.

This variety differs from the typical form of the species in having its leaf-blades to 7 cm. long and 4 cm. wide when mature, distinctly ovate in shape, and very densely velutinous on both surfaces.

The type of the variety was collected by R. G. Taylor (no. G. 110) at an altitude of 50 feet on Tower Island, Galapagos Islands, on April 3, 1939, and is deposited in the herbarium of the California Academy of Sciences at San Francisco. The collector describes the plant as a small bush, 2--3 feet tall, with white flowers, and notes that it is one of the dominant plants of the island.

LIPPIA BOLIVIANA var. *ANGUSTA* Moldenke, var. nov.

Haec varietas a forma typica speciei laminis foliorum valde arguteque serratis et ad apicem acute attenuatis recedit.

This variety differs from the typical form of the species in